

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| L1    | 137  | ((("two-stroke" or (two adj stroke) or twostroke) with (lubrica\$5 or composition or oil or fluid or engine)) and (power near valve)  | US-PGPUB;<br>USPAT; USOCR                                   | OR               | ON      | 2010/11/18<br>09:03 |
| L2    | 312  | fuel and (lubrica\$5 or basestock or (base adj oil) or (base adj stock)) and \$5carboxyl\$ same2 (polyamine or alkanolamine or (thiol with amine)) and glycerol near \$oleate and dispersant and @ad<"20030417" | US-PGPUB;<br>USPAT; USOCR                                   | OR               | ON      | 2010/11/18<br>09:06 |
| L3    | 0    | fuel and (lubrica\$5 or basestock or (base adj oil) or (base adj stock)) and \$5carboxyl\$ near (polyamine or alkanolamine or (thiol with amine)) and glycerol near \$oleate                                    | FPRS; EPO;<br>JPO   | OR               | ON      | 2010/11/18<br>09:10 |
| L4    | 0    | ((("two-stroke" or (two adj stroke) or twostroke)) and (glycerol near \$oleate) and dispersant  | FPRS; EPO;<br>JPO   | OR               | ON      | 2010/11/18<br>09:11 |
| L5    | 22   | ((("two-stroke" or (two adj stroke) or twostroke)) and fuel and lubricant   | FPRS; EPO;<br>JPO   | OR               | ON      | 2010/11/18<br>09:12 |
| L6    | 2    | ((("two-stroke" or (two adj stroke) or twostroke) with (lubrica\$5 or composition or oil or fluid or engine)) and (power near valve)  | FPRS; EPO;<br>JPO   | OR               | ON      | 2010/11/18<br>09:12 |
| S1    | 1    | "20050139174".pn.   | US-PGPUB;<br>USPAT; USOCR                                   | OR               | ON      | 2010/11/17<br>17:23 |
| S2    | 65   | "CLEVELAND, WILLIAM".in. or "SVARCAS, LAIMUTE".in.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2010/11/17<br>17:23 |
| S3    | 3955 | S2 or "lubrizol".as.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2010/11/17<br>17:27 |
| S4    | 237  | S3 and \$5carboxyl\$ same2 (polyamine or alkanolamine or (thiol near amine)) and (glycerol near \$oleate)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2010/11/17<br>17:29 |
| S5    | 14   | S4 and ((("two-stroke" or (two adj stroke) or twostroke) with (lubrica\$5 or composition or oil or fluid))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2010/11/17<br>17:31 |

|     |      |  |                           |    |    |                     |
|-----|------|--|---------------------------|----|----|---------------------|
| S6  | 1102 | 508/522,454,551,554,542.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:33 |
| S7  | 254  | 44/58,75,73,330,427.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:34 |
| S8  | 1243 | 123/1A.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:34 |
| S9  | 2578 | S6 or S7 or S8   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:35 |
| S10 | 6    | S9 and \$5carboxyl\$ same2<br>(polyamine or alkanolamine or (thiol<br>near amine)) and (glycerol near<br>\$oleate) and (("two-stroke" or (two<br>adj stroke) or twostroke) with (lubrica<br>\$5 or composition or oil or fluid))   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:35 |
| S11 | 109  | S9 and \$5carboxyl\$ same2<br>(polyamine or alkanolamine or (thiol<br>near amine)) and (glycerol near<br>\$oleate)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:39 |
| S12 | 18   | ("20040083729"   "3772359"  <br>"4425138"   "4705643"   "5741764"<br>  "5888948"   "6242394"  <br>"6391833"   "4320020"   "4663063"<br>  "4708809"   "4724091"  <br>"5025316"   "5264005"   "6193767"<br>  "6348075"   "6458172").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:41 |
| S13 | 503  | "4248183"(USPAT)<br>"4258669"(USPAT)<br>"4270054"(USPAT)<br>"4312305"(USPAT)<br>"4325331"(USPAT)<br>"4353331"(USPAT)<br>"4353334"(USPAT)<br>"4413486"(USPAT)<br>"4415313"(USPAT)<br>"4437437"(USPAT)<br>"4454712"(USPAT)<br>"4455125"(USPAT)<br>"4458480"(USPAT)<br>"4459945"(USPAT)<br>"4530338"(USPAT)<br>"4546847"(USPAT)<br>"4552106"(USPAT)<br>"4565167"(USPAT)<br>"4608951"(USPAT)<br>"4776308"(USPAT)<br>"4791894"(USPAT)<br>"4793599"(USPAT)<br>"4807579"(USPAT)<br>"4829945"(USPAT)<br>"4873825"(USPAT)<br>"4884532"(USPAT)<br>"4917054"(USPAT)<br>"4940029"(USPAT)<br>"4966000"(USPAT)<br>"4996953"(USPAT)<br>"5010860"(USPAT)<br>"5016729"(USPAT) | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/11/17<br>17:42 |

|                  |
|------------------|
| "5193062"(USPAT) |
| "5228414"(USPAT) |
| "5243938"(USPAT) |
| "5277155"(USPAT) |
| "5375567"(USPAT) |
| "5383427"(USPAT) |
| "5437251"(USPAT) |
| "5454352"(USPAT) |
| "5491977"(USPAT) |
| "5507253"(USPAT) |
| "5586540"(USPAT) |
| "5699758"(USPAT) |
| "5701864"(USPAT) |
| "5704210"(USPAT) |
| "5713314"(USPAT) |
| "5799629"(USPAT) |
| "6062176"(USPAT) |
| "6158217"(USPAT) |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query                  | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|-------------------------------|-------------|------------------|---------|------------------|
| L8    | 724  | 508/522,454,551,554,542.ccls. | USPAT; UPAD | OR               | ON      | 2010/11/18 09:58 |
| L9    | 162  | 44/58,75,73,330,427.ccls.     | USPAT; UPAD | OR               | ON      | 2010/11/18 09:58 |
| L10   | 886  | 123/1A.ccls.                  | USPAT; UPAD | OR               | ON      | 2010/11/18 09:59 |

**11/ 18/ 2010 9:59:57 AM****H:\ Workspaces\ 10511248.wsp**